

FIG. 15

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AQUIRING MEASUREMENTS GIVING INFORMATION
ABOUT PHYSICAL CHARACTERISTICS OF THE ZONE BY
FOLLOWING A PREDETERMINED EXPERIMENTAL PROTOCOL

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SPECIFYING A NOISE MODELLING OPERATOR WHICH ASSOCIATES, WITH A MODEL OF EACH PHYSICAL QUANTITY, SYNTHETIC DATA THAT CONSTITUTE A RESPONSE OF THE MODEL, THE MEASUREMENTS AND THE SYNTHETIC DATA BELONGING TO A DATA SPACE

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SELECTING, FOR EACH CORRELATED NOISE REFERENCED BY A SUBSCRIPT J RANGING FROM 1 TO J, A NOISE MODELLING OPERATOR WHICH ASSOCIATES A CORRELATED NOISE WITH A NOISE-GENERATING FUNCTION BELONGING TO A PREDETERMINED SPACE OF THE NOISE-GENERATING FUNCTIONS (Bj)

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SPECIFYING A NORM OR OF A SEMI-NORM IN THE DATA SPACE

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SPECIFYING A SEMI-NORM IN THE SPACE OF THE NOISE-GENERATING FUNCTIONS FOR WHICH EACH NOISE MODELLING OPERATOR ESTABLISHES SUBSTANTIALLY AN ISOMETRIC RELATION BETWEEN THE SPACE OF NOISE-GENERATING FUNCTIONS AND THE DATA SPACE

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DEFINING A COST FUNCTION QUANTIFYING A DIFFERENCE
BETWEEN THE MEASUREMENTS ON ONE HAND AND A
SUPERPOSITION OF A MODEL RESPONSE AND OF THE
CORRELATED NOISE ASSOCIATED WITH THE NOISE-GENERATING
FUNCTION ON THE OTHER HAND

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ADJUSTMENT OF THE MODEL AND OF THE NOISE-GENERATING FUNCTIONS BY MINIMIZING THE COST FUNCTION, BY MEANS OF AN ALGORITHMIC METHOD TAKING ADVANTAGE OF ISOMETRY OF PROPERTIES OF THE NOISE MODELLING OPERATORS